DEPARTMENT of ENVIRONMENTAL SERVICES Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: PUDDING POND	Lake Area (ha):	5.99
Town: CONWAY County: Carroll	Maximum depth (m): Mean depth (m):	0.8
River Basin: Saco Latitude: 44°02'05" N Longitude: 71°06'51" W	Volume (m³): 1 Relative depth:	16000 0.3
Elevation (ft): 530 Shore length (m): 1600 Watershed area (ha): 266.8	Areal water load (m/yr) : 2 Flushing rate (yr^{-1}) : 1	1.84 27.12 102.0
% watershed ponded: 0.0	- · ·	0.44 cural

BIOLOGICAL:	6 January 1993	2 September 1992
DOM. PHYTOPLANKTON (% TOTAL) #1	MOUGEOTIA 65%	DINOBRYON 55%
. #2	DINOBRYON 15%	
#3		
PHYTOPLANKTON ABUNDANCE (cells/mL)		
CHLOROPHYLL-A (µg/L)		
DOM. ZOOPLANKTON (% TOTAL) #1	KERATELLA>99%	HORIZONTAL TOW
#2		(NO CELL COUNTS)
#3		VERY SPARSE
ROTIFERS/LITER	44	
MICROCRUSTACEA/LITER	<1	
ZOOPLANKTON ABUNDANCE (#/L)	44	
VASCULAR PLANT ABUNDANCE		Abundant
SECCHI DISK TRANSPARENCY (m)		
BOTTOM DISSOLVED OXYGEN (mg/L)	10.2	
BACTERIA (E. coli, #/100 ml) #1		3
#2		
#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None Hypolimnion volume (m³): None Anoxic volume (m³): None

CHEMICAL:			PUDDING CONWAY	POND	
	6 Januar	ry 1993	2	September	1992
DEPTH (m)	1.0		0.1		
pH (units)	5.9		6.1		.,
A.N.C. (Alkalinity)	3.6		2.6		
NITRATE NITROGEN	< 0.02	· · · · · · · · · · · · · · · · · · ·	< 0.02	 	
TOTAL KJELDAHL NITROGEN	0.31		0.60		
TOTAL PHOSPHORUS	0.006		0.008		
CONDUCTIVITY (µmhos/cm)	27.5		28.3		
APPARENT COLOR (cpu)	53		96		
MAGNESIUM			0.26		
CALCIUM			1.4		
SODIUM			2.8		
POTASSIUM			0.52		
CHLORIDE	< 3		3		
SULFATE	2		2		
TN : TP	52		75		
CALCITE SATURATION INDEX			4.6		

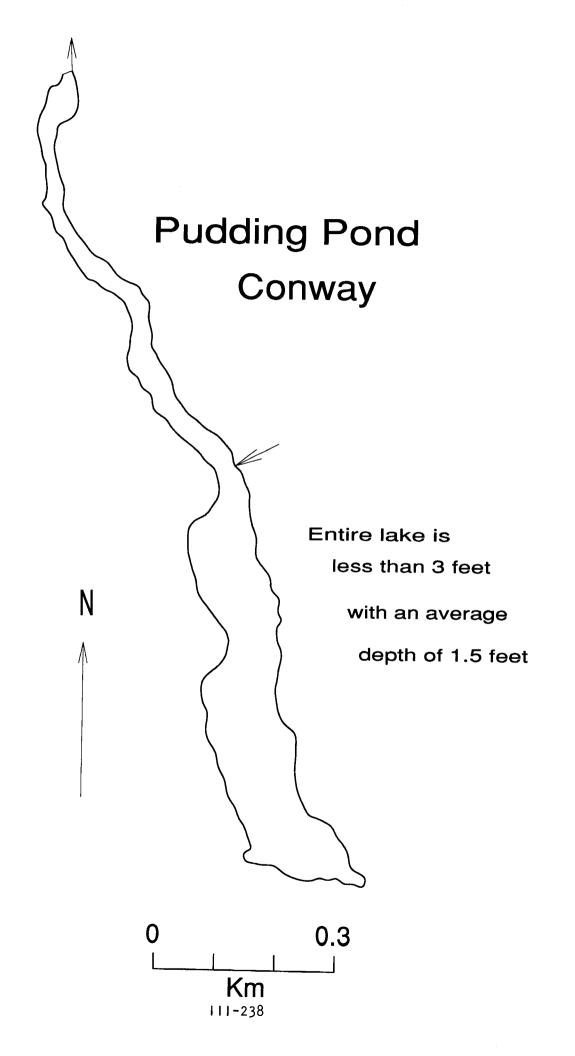
All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1992

ש.ט.	S.D.	PLANT	CHL	TOTAL	CLASS
**	**	5	**	**	N/C

COMMENTS:

- 1. Soundings during the summer survey indicated that all depths were less than three feet, with an average of about 1.5 feet. In the winter, a depth of 4 feet was found.
- 2. Pond was accessed via the Fox Run Inn recreational area.
- 3. No wholewater plankton analysis was done.



FIELD DATA SHEET

LAKE: PUDDING POND

DATE: 09/02/92

TOWN: CONWAY

WEATHER: SUNNY & CALM

	DEPTH (M)	TEMP (°C)	*DISSOLVED OXYGEN	OXYGEN SATURATION
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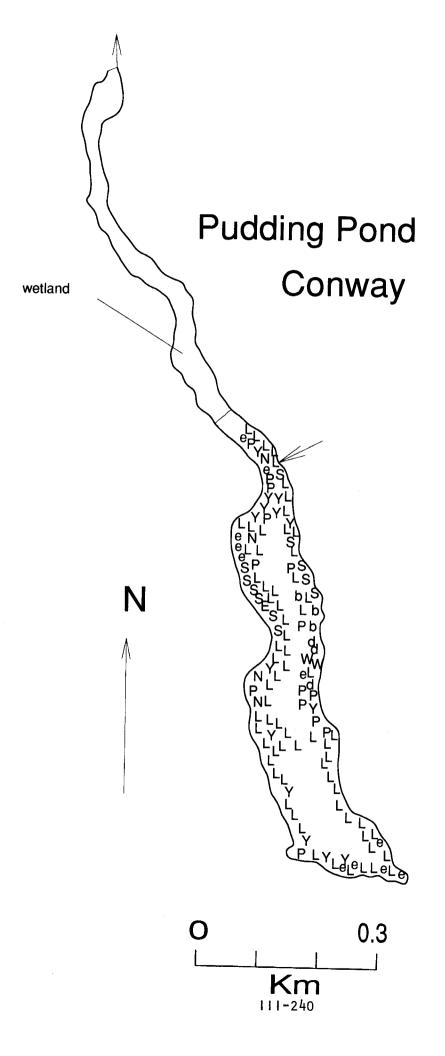
BOTTOM DEPTH (m): 0.8

TIME:

COMMENTS: No dissolved oxygen or temperature data was collected

(too shallow and weedy)

*Dissolved oxygen values are in mg/L



AQUATIC PLANT SURVEY

LAK	E: PUDDING POND	TOWN: CONWAY	DATE: 09/02/92	
Key	PLANT NAME			
	GENERIC	COMMON	ABUNDANCE	
L	Lobelia dortmanna	Water lobelia	Abundant	
N	Nymphaea	White water lily	Scattered	
P	Pontederia cordata	Pickerelweed	Common	
Y	Nuphar	Yellow water lily	Scattered	
S	Sparganium	Bur reed	Common	
E	Eriocaulon septangulare	Pipewort	Sparse	
W	Potamogeton	Pondweed	Sparse	
b	Cyperaceae	non-flowering sedge	Sparse	
d	Dulichium arundinaceum	Three-way sedge	Sparse	
V	Vallisneria americana	Tape grass	Sparse	
е	Eleocharis	Spike rush	Scat/Common	
	Gramineae	Grass family	Abundant	
	Chamaedaphne calyculata	Leatherleaf	Abundant	
	Drosera	Sundew	Abundant	
		Sterile thread-like leaf	Abundant	

OVERALL ABUNDANCE: Abundant

GENERAL OBSERVATIONS:

- 1. This is more a wetland than a pond. The northern half of the pond had dense plant growth throughout. The southern half had areas of open water, although the entire bottom of the pond was covered with submerged non-flowering plant growth.
- The entire shoreline was bordered by wetlands with leatherleaf, sundew and grasses abundant. These plants and the sterile bottom growth are not depicted on the map.